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WHAT IS CLAIMED IS:

- 1. A cathode ray tube comprising a panel provided with a colored layer on an outer surface of a face portion, wherein an emission luminance ratio is 75% or higher in a lowest part relative to a highest part and a diffuse reflectance ratio is 90% or higher in a lowest part relative to a highest part in an image display area of the face portion.
- The cathode ray tube according to claim 1, wherein a light
 transmittance of the colored layer in a periphery of the face portion is the same as or larger than a light transmittance in a center.
 - 3. The cathode ray tube according to claim 1, wherein the outer surface of the face portion is substantially flat and an inner surface thereof is curved, and a light transmittance ratio of the colored layer is 100 to 120% in a peripheral portion on a minor axis of the face portion relative to a center.
 - 4. The cathode ray tube according to claim 1, wherein a boundary line showing a distribution of light transmittance in the colored layer is a convex form protruding from the center of the face portion toward the periphery.
 - 5. The cathode ray tube according to claim 4, wherein the boundary line is an approximately Ω letterform protruding more toward a peripheral direction in a vicinity of a major axis of the face portion.
 - 6. A method for manufacturing the cathode ray tube according to any one of claims 1 to 5, wherein the colored layer is allowed to have a distribution of light transmittance by changing an application quantity of a coloring agent.
- 7. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing an application speed.
- 8. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing a distance between the face portion and an application apparatus.
 - 9. The method for manufacturing the cathode ray tube according to

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WHAT IS CLAIMED IS:

- 1. A cathode ray tube comprising a panel provided with a colored layer on an outer surface of a face portion, wherein an emission luminance ratio is 75% or higher in a lowest part relative to a highest part and a diffuse reflectance ratio is 90% or higher in a lowest part relative to a highest part in an image display area of the face portion.
- 2. The cathode ray tube according to claim 1, wherein a light transmittance of the colored layer in a periphery of the face portion is the same as or larger than a light transmittance in a center.
 - 3. The cathode ray tube according to claim 1, wherein the outer surface of the face portion is substantially flat and an inner surface thereof is curved, and a light transmittance ratio of the colored layer is 100 to 120% in a peripheral portion on a minor axis of the face portion relative to a center.
 - 4. The cathode ray tube according to claim 1, wherein a boundary line showing a distribution of light transmittance in the colored layer is a convex form protruding from the center of the face portion toward the periphery.
 - 5. The cathode ray tube according to claim 4, wherein the boundary line is an approximately Ω letterform protruding more toward a peripheral direction in a vicinity of a major axis of the face portion.
 - 6. A method for manufacturing the cathode ray tube according to any one of claims 1 to 5, wherein the colored layer is allowed to have a distribution of light transmittance by changing an application quantity of a coloring agent.
- 7. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing an application speed.
 - 8. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing a distance between the face portion and an application apparatus.
 - 9. The method for manufacturing the cathode ray tube according to

claim 6, wherein the application quantity of the coloring agent is changed by changing a spray quantity from an application apparatus.